

**Notice of Allowability**

Application No.

10/052,567

Examiner

Puong Phu

Applicant(s)

ZAMIR, RAM

Art Unit

2631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed on 12/5/05.
2. ☒ The allowed claim(s) is/are 1,3-17 and 48-55.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### **EXAMINER'S AMENDMENT**

1. This Office Action is responsive to the Amendment filed on 12/05/05.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney/Agent Guy Yonay on 12/15/05.

The application has been amended as follows:

#### **IN THE CLAIMS:**

Claims 18-47 and 56-72 are canceled.

### **REASONS FOR ALLOWANCE**

3. Claims 1, 3-17, 48-55 are allowed.
4. The following is an examiner's statement of reasons for allowance:

References 6452967, 5181198, 5887032, 6160790 and 5271037 are additionally cited because they are pertinent to the claimed invention.

-Regarding to independent claim 1, none of prior art of record teaches or suggests a system of mitigating crosstalks, as claimed wherein the system comprises a plurality of protected lines each connected to one of a first plurality of modems; a plurality of sensor lines connected to a second plurality of modems; and a crosstalk predictor of sampling signals on said plurality of sensor lines and providing a crosstalk prediction signal to each of a plurality of summation elements wherein each of said plurality of summation elements, respectively, is located at each

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of said first plurality of modems for subtracting said crosstalk prediction signal from a data transmission signal on the respective one of said plurality of protected lines. Tran (6,553,085), previously cited, discloses the claimed invention except that in Tran, each of said first plurality of modems has its own crosstalk predictor for providing a crosstalk prediction signal to its summation element for subtracting said crosstalk prediction signal from a data transmission signal on its connected protected line. It would not have been obvious for a person skilled in the art to implement Tran in view of other prior art of record for leading such the implementation to the claimed invention.

-Regarding to independent claim 48, none of prior art of record teaches or suggests a method of mitigating crosstalks, as claimed wherein the method comprises procedures of sampling a plurality of signals on a plurality of sensor lines connected to a plurality of modems; providing a crosstalk prediction signal based on said plurality of sampled signals; and subtracting said crosstalk prediction from a data transmission signal received on a protected line connected to a modem other than said plurality of modems. Tran, in view of Chen (5,970,088), teaches the claimed invention except that in Tran's in view of Chen, a plurality of crosstalk prediction signals are provided for being subtracted from the data transmission signal received on a protected line connected to a modem other than said plurality of modems wherein each of the plurality of crosstalk prediction signals is provided based on a respective one of said plurality of sampled signals. It would not have been obvious for a person skilled in the art to implement the combination of Tran and Chen, in view of other prior art of record for leading such the implementation to the claimed invention.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (6:30-2:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Phuong Phu*

Phuong Phu  
12/16/05

**PHUONG PHU  
PRIMARY EXAMINER**

Phuong Phu  
Primary Examiner  
Art Unit 2631